CLAIMS

What is claimed is:

1. A phase change optical disk, comprising:

   a substrate;

   a first dielectric layer, which is formed on the substrate;

   a second dielectric layer, which is formed on the first dielectric layer, wherein the refractive index n2 of the second dielectric layer is greater than the refractive index n1 of the first dielectric layer;

   a third dielectric layer, which is formed on the second dielectric layer, wherein the refractive index n3 of the third dielectric layer is less than the refractive index n2 of the second dielectric layer;

   a recording layer, which is formed on the third dielectric layer;

   a fourth dielectric layer, which is formed on the recording layer; and

   a reflecting layer, which is formed on the fourth dielectric layer.

2. The phase change optical disk of claim 1, which is suitable for an optical disk driver with a short wavelength light source.

3. The phase change optical disk of claim 2, wherein the short wavelength light source is a blue light laser diode.

4. The phase change optical disk of claim 1, which is suitable for an optical disk driver with a long wavelength light source.

5. The phase change optical disk of claim 4, wherein the long wavelength light source is a red light laser diode.

6. The phase change optical disk of claim 1, wherein the first dielectric layer is made of silicon dioxide (SiO_2).

7. The phase change optical disk of claim 1, wherein the first dielectric layer is made of aluminum oxide (Al_2O_3).

8. The phase change optical disk of claim 1, wherein the second dielectric layer is made of zinc sulfur-silicon dioxide ($ZnS\text{-}SiO_2$).

9. The phase change optical disk of claim 6, wherein the third dielectric layer is made of silicon dioxide.

10. The phase change optical disk of claim 7, wherein the third dielectric layer is made of aluminum oxide.

11. The phase change optical disk of claim 1, wherein the material of the reflecting layer is selected from the group consisting of gold, aluminum, titan, copper, chromium, and the alloy thereof.